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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.		MSC-23518-1		
First Inventor		Karen M. Taminger		
Title	Solid Freeform Fabrication Apparatus and Method			
~	14-211-6-111		ELIGEZGAZOGZI IC	

(Only for new nonprovisional applications under 37 CFR 1.53(b)) | Express Mail Label No. | EU65/64/86/US Assistant Commissioner for Patents **APPLICATION ELEMENTS** ADDRESS TO: **Box Patent Application** See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) Specification [Total Pages 3. [V] Computer Readable Form (CRF) (preferred arrangement set forth below) Descriptive title of the invention b. Specification Sequence Listing on: - Cross Reference to Related Applications CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, ii. 🔲 or a computer program listing appendix Statements verifying identity of above copies - Background of the Invention - Brief Summary of the Invention ACCOMPANYING APPLICATION PARTS - Brief Description of the Drawings (if filed) Detailed Description Assignment Papers (cover sheet & document(s)) - Claim(s) Power of 37 CFR 3.73(b) Statement - Abstract of the Disclosure (when there is an assignee) Attorney English Translation Document (if applicable) 4. Drawing(s) (35 U.S.C. 113) [Total Sheets Copies of IDS Information Disclosure 5. Oath or Declaration [Total Pages Citations Statement (IDS)/PTO-1449 **Preliminary Amendment** Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) Return Receipt Postcard (MPEP 503) b. (for continuation/divisional with Box 18 completed) (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed) **DELETION OF INVENTOR(S)** Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR Nonpublication Request under 35 U.S.C. 122 16. 🗸 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Application Data Sheet. See 37 CFR 1.76 17. V Other: Letter w/certificate of mailing 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional of prior application No.: Prior application information: Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the agreempagying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a por ertently omitted from the submitted application parts. Customer Number or Bar Code Label Correspondence address below Name Theodore U. Ro NASA Johnson Space Center **Address** 2101 NASA Road One Mailcode: HA City State Zip Code Houston TX 77058 281-244-8452 Telephone 281-244-7148 Country **USA** Fax Theodore U. Ro Registration No. (Attorney/Agent) 52,168 Name (Print/Type) 08/01/2003 Signature

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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PTO/SB/17 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

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Co	omplete if Known
Application Number	
Filing Date	8/1/2003
First Named Inventor	Karen M. Taminger
Examiner Name	
Art Unit	
Attorney Docket No.	VCC 22510 1

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	<u>Large l</u>					
Deposit 14-0116	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number	1051	130	2051		Surcharge - late filing fee or oath	T C T GIG
Deposit National Aeronautics and	1052	50	2052	25	Surcharge - late provisional filing fee or	
Name	1053	130	1053	130	cover sheet Non-English specification	
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1812		1812		For filing a request for ex parte reexamination	
Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920*	Requesting publication of SIR prior to	
Charge fee(s) indicated below, except for the filing fee	1005	1.840*	1005	4 040*	Examiner action Requesting publication of SIR after	
to the above-identified deposit account.		1,040	1805	1,840	Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	410	2252	205	Extension for reply within second month	
Large Entity Small Entity	1253	930	2253	465	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,450	2254	725	Extension for reply within fourth month	
1001 750 2001 375 Utility filing fee 750.00	1255	1,970	2255	985	Extension for reply within fifth month	
1002 330 2002 165 Design filing fee	1401	320	2401	160	Notice of Appeal	
1003 520 2003 260 Plant filing fee	1402	320	2402		Filing a brief in support of an appeal	
1004 750 2004 375 Reissue filing fee	1403	280	2403		Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451		1451	•	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 750.00	1452	110	2452		Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,300	2453		Petition to revive - unintentional	
Fee from Extra Claims below Fee Paid	1501 1502	1,300 470	2501 2502		Utility issue fee (or reissue)	
Total Claims 59 -20** = 39 x 18 = 702	1502	630	2502		Design issue fee	
Independent 6 - 3** = 3 x 84 = 252	1460	130	1460	• • • •	Petitions to the Commissioner	
Multiple Dependent	1807	50	1807		Processing fee under 37 CFR 1.17(g)	
Large Entity Small Entity	1806	180	1806		Submission of Information Disclosure Stmt	
Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	8021	40	802	1 40	Recording each patent assignment per	40.00
1202 18 2202 9 Claims in excess of 20		110			property (times number of properties)	
1201 84 2201 42 Independent claims in excess of 3	1809	750	2809	9 3/5	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional invention to be	
1204 84 2204 42 ** Reissue independent claims over original patent	1801	750	2801	375	examined (37 CFR 1.129(b)) Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	• • • • • • • • • • • • • • • • • • • •	
(0)	Other	fee (sp	ecify)		•	
SUBTOTAL (2) (\$\frac{1}{2}\) 954.00				Filing F	ee Paid SUBTOTAL (3) (\$) 40.0	00
**or number previously paid, if greater, For Reissues, see above					σου το τημ (σ)	

SUBMITTED BY (Complete (if applicable) 281-244-7148 Registration No. Theodore U. 52,168 Name (Print/Type) Telephone Signature Date

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Sean O'Keefe) Group Art) Unit:
First Named Inventor:	Karen M. Taminger)
Serial No.:)
Filed:	August 1, 2003)
For:	Solid Freeform Fabrication Apparatus and Methods)))
		,

Letter

MS Patent Application Commissioner for Patents P. O. Box 1450 Alexander, VA 22313-1450

Sir:

The enclosed application is being filed in accordance with Rules 1.10 and 1.53(b) in order to obtain a filing date of August 1, 2003. The application is being sent by Express Mail "Post Office to Addressee" under Certificate EU657647867US.

Respectfully submitted,

Theodore U. Ro, Reg. No. 52,168

Attorney for Applicant

Houston, Texas 77058

Telephone: 281-244-7148 or 281-483-4871

Datafax: 281-244-8452

I hereby certify that the attached application "Solid Freeform Fabrication Apparatus and Methods," is being deposited with the United States Postal Service on August 1, 2003, as Express Mail "Post Office to Addressee" under Certificate No. EU657647867US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Tanya B. Jefferson

PTO/SB/35 (11-00)

Approved for use through 10/31/2002, OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor	Karen M. Taminger
Title Solid Freeform	n Fabrication Apparatus and Method
Atty Docket Number	MSC-23518-1

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

0///03 Date

Signature

Thursday K.

Theodore U. Ro, #52,168

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).